USSR/Human and Animal Physiology. Thermoregulation.

T-3

Abs Jour: Ref Zhur-Biol., No 12, 1958, 55378.

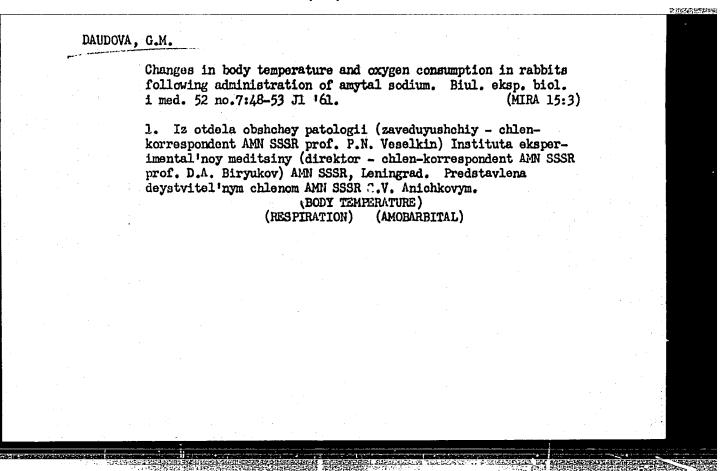
After an administration of phenamin (which by itself causes some rise in body temperature), the B. mesentericus injection caused a more pronounced temperature rise in some tests, and a less pronounced rise in temperature in other tests as compared to control tests. Also, studies were made on the effect of a B. mesentericus injection on 2 castrated dogs. In this case, during a certain initial period of time, following the injection of the pyrogenic agent, a decrease in FR was observed. However, after a prolonged period of time (about 3½ years) the fabrile capacity of the animals was completely restored.

Cardo : 3/3

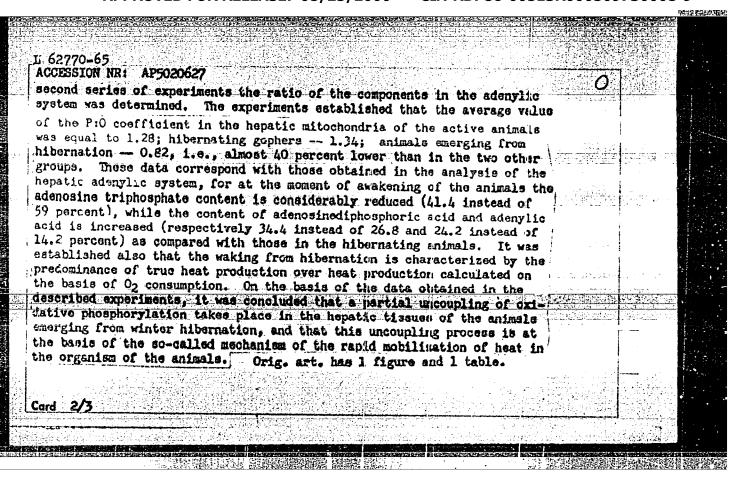
Participation of the nervous system in the regulation of metabolism in the liver. Report No.2: Effect of denervation of the liver on fat accumulation in it during experimental pancreatic diabetes. Mat. po evol. fiziol. 3:46-50 '58. (MIRA 12:4) (LIVER-INNERVATION) (PANCREAS) (FAT METABOLISM)

: USSR Country : Human and Animal Physiology, Thermoregulation Catogory Abs. Jour. : Ref Zhur - Biol., No. 2, 1959, No. 7875 : Daudova, G.M. : ---ENDUTER ... : The Reactivity of the Thermoregulatory Centers Title of Animals in Amytal Hypothermia. : Byul. eksperim. biol. i med., 1958, 45, No. 2, Orig Pub. 62--66 : A study was made of the reactions of the thermo-Abstr ot regulatory centers to a pyrogen during amytal hypothermia; intact dogs were used, as well as dogs with the basic distance receptors destroyed by V.S.Galkin's method (Arkhiv biol. nauk, 1933, 33, vyp. 1--2, 27--53). Hypothermia usually resulted both in the animals which received a pyrogen (a vaccine of Bact. mesentericus, 0.5 or 1 ml/kg subcutaneously) during the first hour after the injection of sodium amytal (50--75 mg/kg) and when sodium amytal was given alone. When the pyrogen was injected 4 hours Jard:

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L 62770-65 ACCESSION NR: AP5020627 UR/0218/64/029/006/1003/1008 AUTHOR: Heyfakh, S. A.; Daudova, G. K. TITLE: Uncoupling of oxidative phosphorylation in the liver at the moment of awakening of hibernating enimals SOURCE: Blokhimiya, v. 29, no. 6, 1964, 1003-1008 TOPIC TAGS: biologic metabolism, experiment animal, biologic respiration, biochemistry Abstract: Small gophers - Citellus pigmaeus - found in the steppes of the Central Volga area were used in the experiments which were carried out in order to test the hypothesis that the uncoupling of oxidative phosphory. lation is at the basis of the rapid heat mobilization at the moment of the emergence of an animal from winter hibernation. The animals were under observation when in a state of activity, in a period of hibernation, and at the moment of their waking from hibernation. The state of oxidative and phosphorus metabolism in the liver was determined in all three groups of the experimental animals. Two series of experiments were conducted. In the first series, respiration and oxidative phosphorylation in the hepatic mitochondria were studied to establish the Pro coefficient. In the Card 1/3

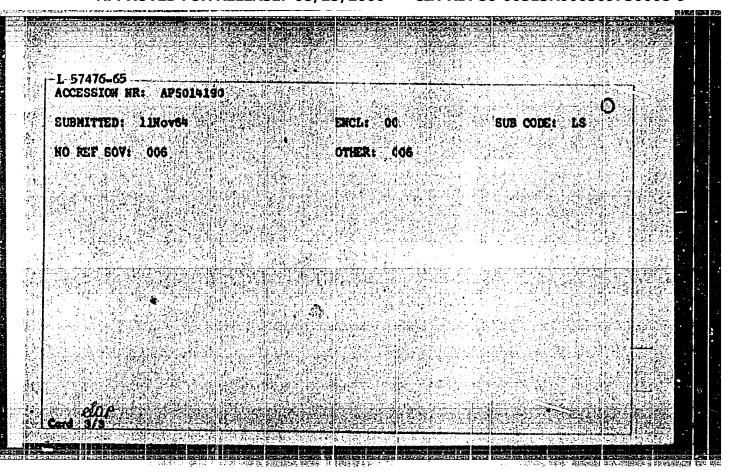


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AUTHOR: Daudova, G. H.: Stepanova, N. C.	
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SURCE: Zhurnal evolyutsionnoy biokhimi i fiziologii, v. 1, no. 1, 1965, 32-3	DI-0-
TOPIC TAGS: laboratory animal, metabolism, enzyme, liver, hibernation, muscle tein, physiology	unit (
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ture rose insignificantly. Thereafter,	hexekinase ac	tivity cont	inued to increas	se latesti	
in paraller with the rise in body temper	uture. Glucc	kinase acti	vity in the mito) -	
chondria diminished during hibernation b					
awakened. The high hexikinase activity	in the liver	and muscles	of wakeful susi	liks E is i	
is regarded by the authors as a form of	adaptation.	Orig. art. 1	has: 2 figures,	1	
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DAUDOVA, G.M.; REPIN, I.S.

Thermoregulating activity of the muscles in the awakening of hibernating animals. Pat. fiziol. i eksp. terap. 9 no.2:73-74 Mr-Ap '65. (MIRA 18:5)

1. Laboratoriya obshchey patologii (zav. - chlen-korrespondent AMN SSSR prof. P.N.Veselkin) Instituta eksperimental noy meditsiny AMN SSSR, Leningrad.

"APPROVED FOR RELEASE: 08/25/2000 CIA-

CIA-RDP86-00513R000509730008-9

DAUDOVA, G.M.; NEYFAKH, S.A.

Respiratory processes and phosphorylation in the liver mitochondria of the hibernating gopher. Fiziol.zhur. 51 no.3:384-387 Mr 165.

(MIRA 18:5)

1. Otdel obshchey patologii i laboratoriya biokhimicheskoy genetiki Instituta eksperimental'noy meditsiny AMN SSSR, Leningrad.

DAUDOVA, G.M.

Glycemic curves in experimentally induced vaccinal fever. Pat. fiziol. i eksp. terap. 9 no.1:71-72 Ja-F '65. (MIRA 18:11)

1. Otdel obshchey patologii (zav. - chlen-korrespondent AMN SSSR prof. P.N. Veselkin) Instituta eksperimental noy meditsiny AMN SSSR, Leningrad.

NEYFAKH, S.A.; DAUDOVA, G.M.

Uncoupling of exidative phosphorylation in the laver during the awakening of a hibernating animal. Biokhimiia 29 no.601003-1008 N-D 164. (MERA 18:12)

l. Laboratoriya enzimologii otdela biokhimii i laboratoriya obshchey patologii Instituta eksperimentalinoy meditsing Akademii meditsinskikh nauk SSSR, Leningrad. Submittes Vanousy 13, 1964.

ACC NR. AP6015935	SOURIE CODE: UR/(239/65/051/003/0384/0387)	
AUTHOR: Daudova, G. M.; Neyrakh,	S. A. Neifaldi, S. A.	
toriya biokhimicheskov genetiki In	logy and Laboratory of Biochemical Genetics, Insti- LSSSL Lening ad (Otdel obshchey patologii i Labora- stituta eksperimental noy meditsiny AMN SSSR)	
TTTIE: <u>Respiration</u> and phosphoryl	ation in liver mitochondria of hibernating ground	
SOURCE: Fiziologicheskiy zhurnal:	SSSR, v. 51, no. 3, 1965, 384-387	
TOPIC TAGS: biologic respiration,	phosphorylation, liver, cell physiology	
ABSTRACT: Determinations carried of cround squirrels (Citellus pygmaeur in a state of hibernation indicated exidative phosphorylation in them repectes that had a body temperature active. The authors thank Professor Mikrob, "Saratov) for their assist	out on mitochondria isolated from the liver of s Pall.) with a body temperature of 5-12° that were d that the respiration of the mitochondria and the were at the same level as for animals of the same e of 33-39° and were in a state of wakefulness and or B. K. Fenyuk and S. H. Vurshavskiy (Institut tance in sorting the ground squirrels. Orig. art.	
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	ACC NR: AP6035574 SOURCE CODE: UR/0385/66/002/005/0429/0431]		
	AUTHOR: Daudova, G. N.			
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	ORG: Department of General Pathology, Institute of Experimental Medicine, Academy of	pro the		
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B.	hibernation and artificial deep hypothermia			
	SOURCE: Zhurnal evolvutaionnov biokhi-ii i si-ii i			
	SOURCE: Zhurnal evolyutsionnoy biokhimii i fiziologii, v. 2, no. 5, 1966, 429-431	* *		
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П	TOPIC TAGS: biologic metabolism, hypothermia, animal experiment, biologic oxidation, animal physiology, suslik, rodent			
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	fresh tissue were mixed in 1.5 ml of fluid. This procedure took place at a temperature			
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CHINEHKOV, Yu.V. [Cinenkovas, J.]; DAUDYARIS, P.P. [Dauderys, P.]

Study of the joints and elements of precast cylindrical shells made from light or cellular someretes. Trudy AN lit. SSSR. Ser. B no. 1:205-223 *163. (MIRA 17:5)

1. Institut stroitel*stva i arkhitektury AN Litovskoy SSR.

KHUDOMINSKAYA, L.S.; DAUENGAUER, N.A.; MARCHUKOVA, A.A.

Spectrophotometric determination of the aromatic hydrocarbons in the pyrolysis products of chamber natural gasoline. Trudy VNIIT no.13:232-237 '64. (MIRA 18:2)

AGCESSION NR: AT 1002	55h 5/29hh/	/63/000/001/0012/0026
	. I.; Domanovskaya, Ye, F.	54
"我就说我们是想 _说 ,我们是这些	rmulas adapted for solving integral equa	ations
SOURCE: Leningrad. Vychislitel'nymy teer	Universitet. Kafedra vychislitel'noy ma itr. Metody vychisleniy, no. 1, 1963, 12	ntematiki 1 2-26
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AUTHOR:

Daugavet, I.K.

507/140-58-5-13/14

TITLE:

On the Velocity of Convergence of the Galerkin Method for Ordinary Differential Equations (O bystrote skhodimosti metoda Galerkina dlya obyknovennykh differentsial'nykh uravneniy)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1958, Nr 5, pp 158-165 (USSR)

ABSTRACT:

The author considers the boundary value problem

(1)
$$L(x) = \frac{d^{2k}x}{dt^{2k}} + \lambda \left[a_1(t) \frac{d^{2k-1}x}{dt^{2k-1}} + \cdots + a_{2k}(t)x \right] = y(t)$$

(2)
$$x(-1) = x^{1}(-1) = ... = x^{(k-1)}(-1) = 0$$

 $x(1) = x^{1}(1) = ... = x^{(k-1)}(1) = 0$

Let the approximative solution $x_n(t)$ be sought according to Galerkin as a series $x_n(t) = \sum_{i=0}^n c_i \varphi_i(t)$, $\varphi_i(t) = (1-t^2)^k t^i$, where the c_i are obtained from the conditions

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On the Velocity of Convergence of the Galerkin Method SOV/140-58-5-13/14 for Ordinary Differential Equations

$$\int_{0}^{+1} L(x_n) \cdot \varphi_i(t) dt = \int_{-1}^{+1} y(t) \varphi_i(t) dt, \quad i=0,1,\dots,n.$$

Main results Let λ be no eigen value of the problem (1)-(2), let the $a_1(t)$ be sufficiently smooth. Let $x^{\mu}(t)$ be the solution of (1)-(2) and $x_n(t)$ be the approximation determined according to the method of Galerkin. Then for $t \in [-1,1]$ it holds

$$\left| \frac{\mathrm{d}^{s}}{\mathrm{d}t^{s}} \left[x^{*}(t) - x_{n}(t) \right] \right| \leqslant CE_{n}^{(s)} (x^{s}) n^{k-s} \cdot 3/2, 0 \leqslant s \leqslant k-3$$

$$\left|\frac{d^{s}}{dt^{s}}\left[x^{*}(t)-x_{n}(t)\right]\right| \leqslant CE_{n}^{(s)}(x^{*})\sqrt{n} \ln n, \ s=k-2, k-1, k$$

where it is

Card 2/3

$$E_n^{(s)}(x^{*}) = \inf_{Q_n} \sup_{-1 \le t \le 1} \left| \frac{d^s}{dt^s} \left[x^{*}(t) - (1 - t^2)^k Q_n(t) \right] \right|$$

and inf is taken over all polynomials $Q_n(t)$ of at most not degree.

On the Velocity of Convergence of the Galerkin Method SOV/140-58-5-13/14 for Ordinary Differential Equations

If $\mathbf{r}^t(t)$ is r-times continuously differentiable and if the r-th derivative satisfies the Lipschitz condition with the exponent $\boldsymbol{\alpha}$, then it holds

$$\left| \frac{d^{8}}{dt^{8}} \left[x^{*}(t) - x_{n}(t) \right] \right| \leqslant \begin{cases} c \cdot n & 0 \leqslant s \leqslant k-3 \\ c \cdot n & -(r-s+d-\frac{1}{2}) \\ c \cdot n & s=k-2, k-1, k \end{cases}$$

There are 5 references, 4 of which are Soviet, and 1 is American.

ASSOCIATION: Leningradskiy gosudarstvennyy universitet imeni A.A.Zhdanova (Leningrad State University imeni A.A.Zhdanov)

Card 3/3

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509730008-9

DAUGAVET, I.K., Cand Phys-Math Sci — (diss) "Study of the convergence of the B.G. Galerkin method formordinary differential equations." Len, 1959. 6 pp (Len Order of Lenin State U im A.A. Zhdanov nov). 150 copies (KL, 37-59, 106)

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16.3400

AUTHOR: Daugav

Daugavet, O. K.

TITLE:

A method of numerical integration of ordinary differential

equations

PERIODICAL:

Sibirskiy matematicheskiy zhurnal, v. 2, no. 5, 1961,

792 - 796

T: The approximate solutions $y_{i,k+1} = y_{ik} + \int_{i}^{k+1} y_{i}(x) dx$ of the system

 $y_i' = f_i(x, y_1, y_2, ..., y_n)$ are represented by the linear combinations

 $y_{i,k+1} = y_{ik} + a_0 y_{ik} + \dots + a_1 y_{i,k-1}$

The coefficients a satisfy systems of the algebraic equations $x_k + h = 1 + 1$

 $\int_{-\pi}^{\pi} \phi_{j}(t)dt = \sum_{i=1}^{i+1} a_{i}\phi_{j}(x_{k} - (1+1-i)h),$

Card 1/2k

31101

A method of numerical...

S/199/61/002/005/005/006 B112/B138

where ϕ_j are given functions, linear combinations of which approximate the functions f_i . Three examples are given. There are 4 tables and 3 references: 2 Soviet and 1 non-Soviet. The reference to the English-language publication reads as follows: Bellman R., On the Asymptotic Behavior of Solutions of u'' - (1 + f(t))u = 0, Annali di matem. XXXI (1950), 83 - 91,

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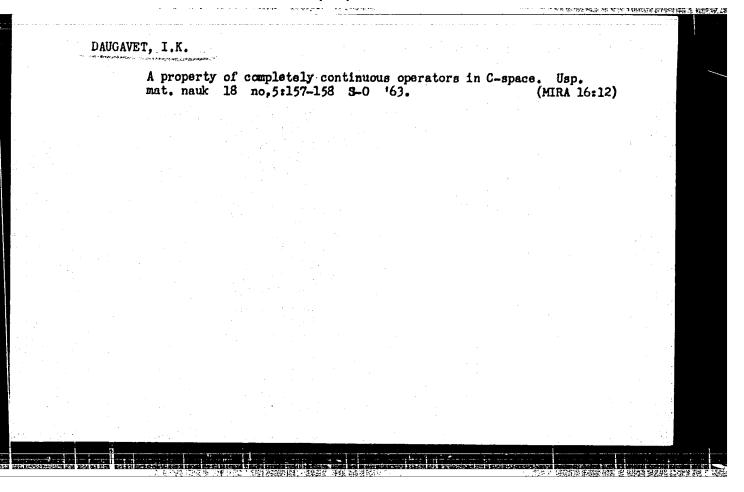
SUBMITTED: February 20, 1961

Card 2/2

DAUGAVET, O.K. (Leningrad); OZEROVA, Ye.F. (Leningrad)

Programming program of the compiler type. Zhur.vych.mat.i mat. fiz. 1 no.4:747-748 Jl-Ag '61. (MIRA 14:8)

(Programming (Electronic computer))

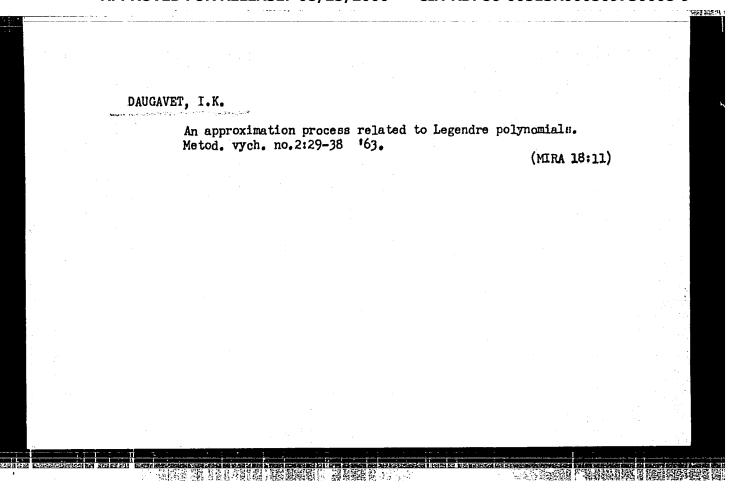


DAUCAVET, I.K.; SAMOKISH, B.A.

A posteriori estimation of the error of the numerical solution
of a differential equation. Metod. vych. no.1:52-57 163.

(Differential equations—Numerical solutions)

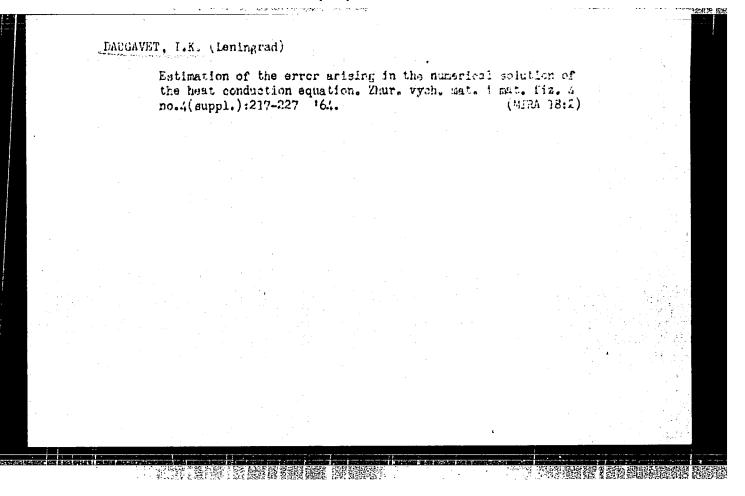
(Differential equations—Numerical solutions)



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AUTHOR: Daugavet, I.	K. (Leningrad)	•		\$
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The state of the s	ential equations B	
ITLE: On the method of moments for ordinary differ	ential equations	
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OPIC TAGS: ordinary differential equation, linear	differential equation, approxi-	
nation method, boundary value problem	\	
		422.74
ABS#RACT: For the equation $Lx = x^{(k)}(t) + \sigma_1(t)x^{(k-1)}(t) + \dots + \sigma_k(t)x^{(k-1)}(t) + \dots + \sigma_k(t)x^{(k-1)}(t)x^{(k-1)}(t) + \dots + \sigma_k(t)x^{(k-1)}(t)x^{(k-1)}(t) + \dots + $	U == 7(I)	T. W. 25 T.
Let the following boundary problem be set:		
$U_{v}(x) = \sum_{i=1}^{n-1} (\alpha_{vi}x^{(i)}(-1) + \beta_{vi}x^{(i)}(1)) = 0,$		
The method of moments consists in finding an approxi	mate solution $x_n(t)$ in the	- 1
form of a polynomial of degree $n+k$ with undetermine chosen so as to satisfy the given boundary condition	s and the following equation:	
$\int Lx_n \cdot l^r dl = \int y(l) \cdot l^r dl, l = 0, 1$	rugg	
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ACCESSION NR: AP5008399

The convergence of the solution follows from a very general theorem of S. G.
Mikhlin. Here, an estimate is made of the rate of uniform convergence of the

method under the assumption that the coefficients of the equation are sufficiently smooth functions. To extend the estimate to the general equation, an asymptotic equation is set up:

e quation is set up: $x_*(t) = x_*(t) + x_*(t) + o(||x_* - \bar{x}_*||c)$

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where $\tilde{x}_n(t)$ is an approximate solution with $y = x_k(k)$ obtained by the method of moments. Conditions are stated under which the asymptotic equation holds, and the boundary value problem is investigated with respect of these conditions. Finally, estimates of rate of convergence are made for a group of approximation methods for a differential equation of even order under the simplest boundary conditions. An improvement is made in the estimate of rate of convergence due to B. G. Galerkin. Orig. art. has: 107 formulas

ASSOCIATION: none

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SUB CODE: HA

NO REF SOV: 006

OTHER: 001

Card 2/2 CC

DAYGAVET, I. P., "auch. Sotr.

Nikiforov, Yu. N., Laureat Stalinskey Premii Inzh. 1

Nauchno-'ssledovatel'skiy institut z'elezno-dorozhnogo Str-''el'stva i proyekt'rovaniya

Issle'ovaniye protsessa i opytno e pri enen'me skle !' syrom dreves'n'. Page 43

SO: Shorn'k Annota s'y Nauchno-Issledovatel'skikh Rabot po Stroitel'stvu, Moscow, 1951

DAUGAYEV, I.K.

USSR/Mathematics - Galerkin's method

Card 1/1 : Pub. 22 - 4/44

Authors : Daugaev, I. K.

Title Application of the general theory of approximation methods to the analysis

of Galerkin's method of convergence for solutions of some boundary problems

of mathematical physics

Periodical : Dok. AN SSSR 98/6, 897-899, October 21, 1954

Abstract : The solution of a given problem is sought in the form of Galerkin's

method, the convergence of which is analyzed in the light of the general

theory of approximation methods. Five references (1948-1953).

Institution: Leningrad State University im. A. A. Zhdanov

Presented by: Academician V. I. Smirnov, July 16, 1954

DAUGELA, A.

Simultaneous gastro-duodenal resection in cancer of Vater's ampulla. Sveik. apsaug. 7 no.4(76):31-33 Ap '62.

1. Khirurgicheskoye otdeleniye Kaunasskogo onkologicheskogo dispansera. Zav. otd. - A. Daugela.

(VATER'S AMPULLA neopl) (GASTRECTOMY)
(DUODENUM surg)

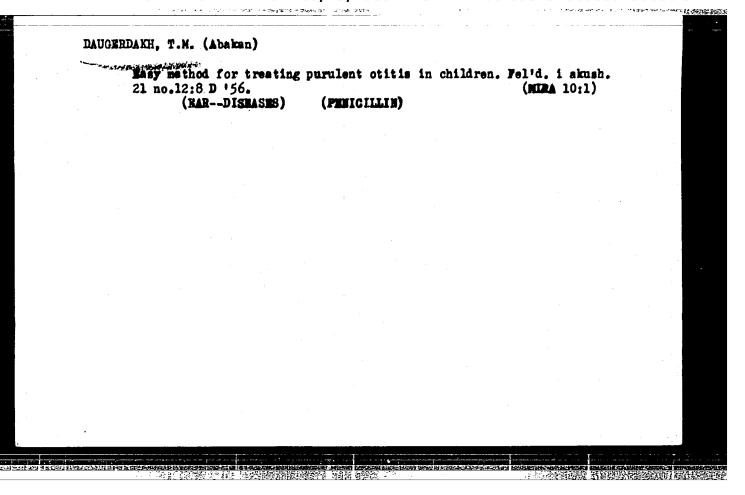
DAUGEIA, I. I., Candidate Tech Sci (diss) -- "Investigation of a system of stabilizing the frequency of a source of variable voltage". Kaunas, 1959. 23 pp (Min Higher Educ USSR, Kaunas Polytech Inst), 150 copies (KL, No 26, 1959, 125)

DAUGELAITE, M.

Exercise therapy in myocardial infarction according to the Republican Clinical Hospital in Kaumas. Sweik. apsaug. 7 no.3(75):54 Mr 162.

1. Respublikline Kaumo klinine ligonine.

(MYOCARDIAL INFARCT ther) (EXERCISE THERAPY)



DAUGE.T, R. K.= "Experimental-morphological investigation of the innorvation of the periosteum of the anterior extremity of certain mammals." Min Higher Education. Eslaya Tserkov' Agricultural Inst. Bolaya Tserkov', 1956. (Dissertations for the degree of Candidate in Biological Sciences).

S0: Knizhnays Letopis' No. 22, 1956

DAUGERTS, R.; CARANCS, A.; ZARINA, D.; SIRMAIS, J., red.

[Physiology of animals] Dzivnieku fiziologija. Riga,
Latvijas Valsts izd-ba, 1963. 433 p. [In Latvian]

(MIRA 17:7)

DAUGUL', R.

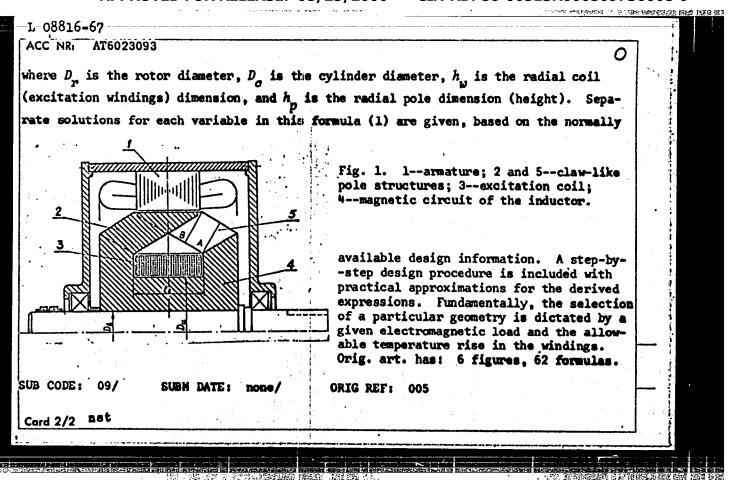
Growing perennial subtropical and fruit cultures on moisture—saturated lands in winter and irrigated lands in early spring in southwestern Turkmenia. Izv. AN Turk. SSR. Ser. biol. nauk no.2:51-53 164. (MIRA 17:6)

1. Kizyl-Atrekskaya opytnaya stantsiya subtropicheskikh kulitur.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509730008-9

T 00010-67 EWT(1) ACC NR. AT6023093 SOURCE CODE: UR/3200/65/000/004/0141/0155 AUTHOR: Apsit, V. V.; Daugulis, Kh. L. ORG: none TITLE: The methodology of selecting the basic dimensions for a synchronous machine with claw-like pole structure and an internal magnetic circuit SOURCE: AN LatSSR. Institut energetiki, Beskontaktnyye elektricheskiye mashiny, no. 1965, 141-155 TOPIC TAGS: electric motor, synchronous electric motor, magnetic circuit, magnetic induction, magnetic structure ABSTRACT: The authors provide a detailed design analysis of synchronous induction motors with claw-like pole structure. A cut-off of a typical motor of this type is shown in figure 1. Because of the compactness of the stator structure (which contains the inductor poles, the excitation windings, the internal magnetic circuit and other components) the feasibility of construction is determined to a large degree by the correct selection of the bore in the stator. While the usual approach to calculate several design variations is used, this paper describes a more rigorous design method based on performance and overall size requirements. The main dimensions of the motor are given by $D_{\mathbf{r}} = D_{o} + 2h_{\omega} + 2h_{p}$ **Card** 1/2



DAUIOTAS, A.N. [Daujotas, A.] Receiving of bulk unrefined sugar in the sugar factories of the Lithuanian S.S.R. Sekh.prom. 37 no.6:18-20 Je '63. (MIRA 16:5) 1. Upravleniyé pishchevoy promyshelnnosti soveta narodnogo khozyaystva Litovskoy SSR. (Lithuania—Sujar factories) (Materials handling)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509730008-9

DAUKANTAS, T.

Contents of the maritime statute.

P. 22 (TECHNIKOS ZODIS) Lithuania No. 3, June/July 1957

SO: Monthly Index of East European Acessions (AEEI) Vol. 6, No. 11

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2770 Daukayev, M.R.

Markistskove Ucheniye O Prevos'chodstve Krupnogo Proizvodstva V Zemledelii I Ukrupneniye Melki'ch Kol'chozov. M., 1954. 16s. 22sm. (Adad. Ovshchestv. Nauk Pri Tsk KPSS. Kafedra Polit. Economin.) 220 EKZ. B. Ts. -- (54-55712)

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SERGEYEV, L.I.; DAUKAYEVA, R.S.; SAKHNOV, N.S.

Effect of mineral fertilizers and topdressing on the physiology and productivity of black current. Izv. S() AN SSSR no.8. Ser. biol.-med.nauk no.2:94-98 '65. (MIRA 18:9)

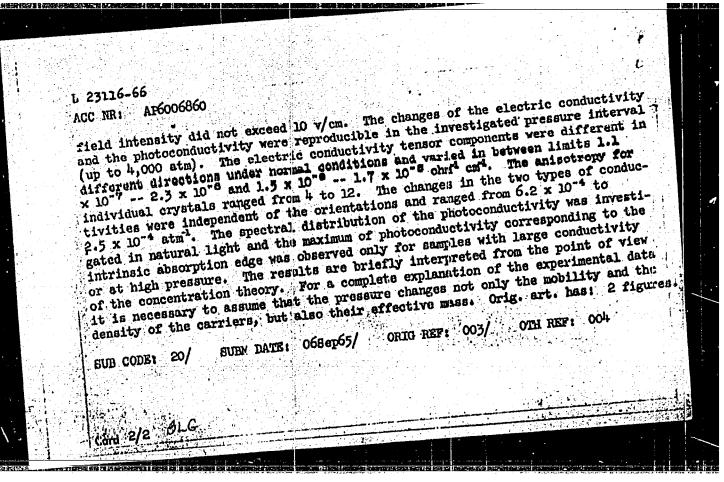
1. Bashkirskiy gosudarstvennyy universitet, Ufa.

DAUKAYEVA, R.S.; POPOV, M.N.; VOLCHANSKIY, A.S.

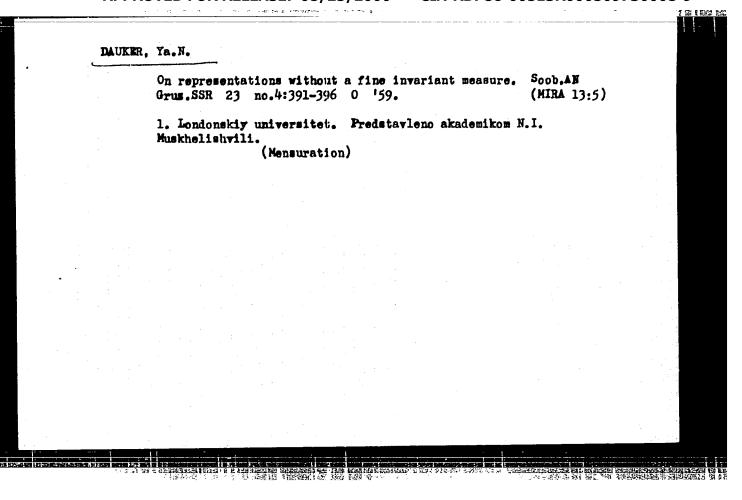
Defoliation in woody plant nurseries and stands. Trudy Inst. biol. UFAN SSSR no. 43:183-187 '65 (MIRA 19:1)

1. Institut biologii Bashkirskogo gosudarstvennogo universiteta i Smolinskiy plodopitemnicheskiy sovkhoz.

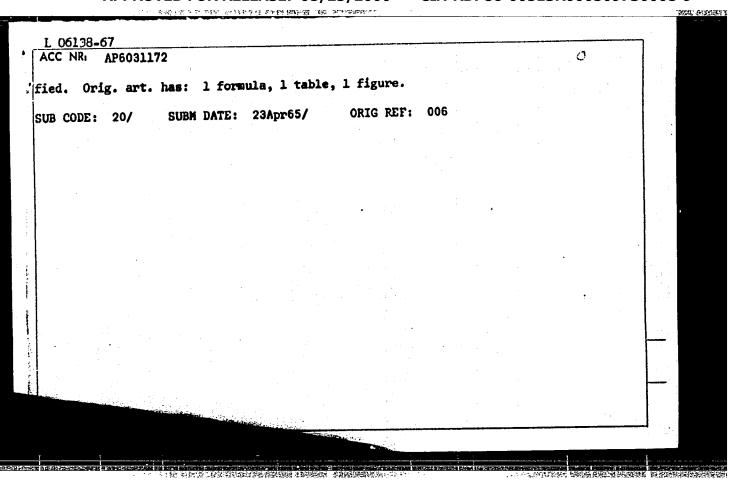
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	s the same as described indow was replaced by a ere grown from the gas p	ase in the form of	ribbons aingle crys	tale
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ACC NR: AP6031172 SOURCE CO	C/JD DDE: UR/0361/66/000/00	
AUTHOR: Korsunskiy, M. I.; Trofimov, O. A.; Garger	, K. S.; Daukeyev, D. K	- 57
ORG: none		13
PITLE: Concerning the spectral distribution of anomalous selenium in the near ultraviolet		
SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matema	ticheskikh nauk, no. 2,	1966, 76-78
TOPIC TAGS: spectral distribution, photoconductivitrapping	ty, selenium, UV spectr	um, electron
ABSTRACT: The dependence of the anomalous <u>photocon</u> of amorphous selenium is measured. The conductivity than for red even though selenium is more absorptive predicted by the phenomenological theory based on the centers. A recent model of long-lived trapping centers of an alloy in amorphous selenium predicts do in the visible region. Also a short wavelength the contract of the documents of the	y of samples is lower for in the blue. This properties of long-laters in the form of a capositive sign of the minimum is predicted, i	or blue light operty is not ived trapping olloidal dis- derivative ndicating a
minus sign for $\frac{d\sigma}{d\lambda}$ in the near ultraviolet. These p	redictions are experime	interity vert
Card 1/2		



"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R000509730008-9

DAUKNIS, V.I.

On the quality of D-35 engine crank-shafts.

p. 77 (Lietuvos TSR Mokslu Akademija. Fizikos-technikos institutas. Darbai. Vol. 2, 1956, Viknius, Lithuania)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2, February 1958

DAUKNIS, V.I.; BEREZNIKOV, V.V.

Crankshaft quality in the D-35 engine. Avt. itrakt.prom no.10:29-30 0 156. (MIRA 10:1)

1. Fisiko-tekhnicheskiy institut Akademii Litovskoy SSR, Kananasskiy remontnyy savod. (Cranks and crankshafts) (Tractors--Engines)

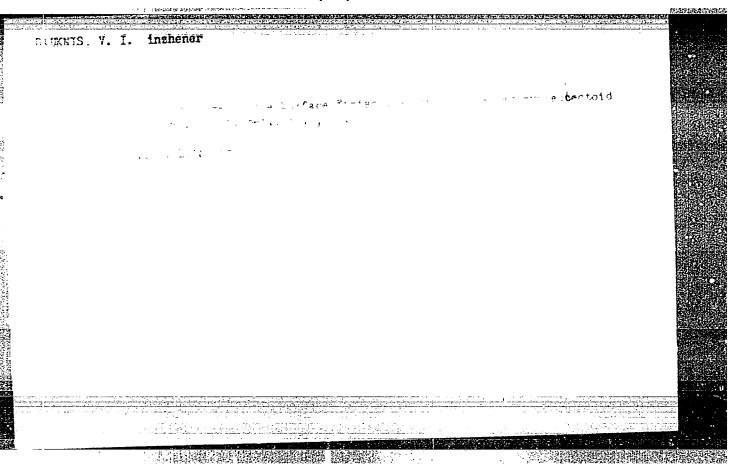
DAUKNIS, V. I.

DAUKNIS VALTER TOWNS AND THE TOWN

Formation of a skew cut in studying thin surface layers. Zav.lab. 22 no.10:1227-1228 '56. (MLRA 10:5)

1.Fiziko-tekhnicheskiy institut Akademii nauk Litovskoy SSR. (Metallography)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730008-9"



DAUKNIS, V.I. [Dauknys, V.]

"The white phase" in a surface layer created by electric spark hardening. Liet ak darbai B no.4:161-169 159 (ERAI 9:3)

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR. (Electric spark) (Hardening)

DAUKNIS, V.I. [Dauknys, V.]

Resistance to wear of the so-called white phase, reated by electric-spark hardening, during the abrasion test. Liet ak darbai B no.3: 239-250 '60. (EEAI 10:3)

1. Institut energetiki i elektrotekhniki Akademii nauk Litovskoy SSR.

(Electric spark) (Hardening) (Abrasion)

BAUKNIS, V.I. [Dauknys, V.]

The state of the second state of the second state of the second s

Using the X4-B machine for the investigation of surface layers. Liet ak darbai B no.4:215-219 61.

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR.

DAUKNIS, V.I. [Dauknys, V.]; PRANTSKYAVICHYUS, G.A. [Pranckevicius, G.]

Size factor in determining resistance to abrasive wear. Liet ak darbai B no.4:221-227 '61.

1. Institut energetiki i elektrotekhniki AN Litovskoy SSR.

5/883/62/000/000/002/020 E194/E155

AUTHOR:

A machine for studying the resistance to abrasive wear Dauknis, V.I.

TITLE:

Metody ispytaniya na iznashivaniye; trudy soveshchaniya,

sostoyavshegosya 7-10 dek. 1960. Ed. by SOURCE:

Moscow, 1zd-vo AN SSSR, 1962, 19-23

The Institut energetiki i elektrotekhniki AN Lit.SSR M.M. Khrushchov. (Power Engineering and Electrotechnical Institute, AS Lith.SSR) developed a machine for determining the resistance to wear of surface layers of materials in contact with a moving abrasive belt. TEXT: The belt was wound from one spool to another, over a smooth flat support, at a constant speed in the range 2 - 273 metres/min. The spools carried about 20 metres of 18 cm wide abrasive belt, so that a wear path of any length up to 20 metres could be used,

the driving motor then being automatically stopped. Wear specimens of various diameters and profile could be clamped in the holders, which were each mounted on two cantilever springs carrying strain gauges to measure displacement. The lateral

Card 1/2

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ACC NR. AP6034934 (A) SOURCE CODE: UR/0236/66/000/001/0161/0166

AUTHOR: Prantskyavichyus, G. A.—Pranckovicius, G.; Yurenas, V. I.—Jurenas, V.; Dauknis, V. I.—Dauknys, V.; Yodis, A. P.—Juodis, A.; Mayauskas, I. S.—Majauskas, J.

ORG: Institute of Power and Electrical Engineering, Academy of Sciences Lithuanian SSR (Institut energetiki i elektrotekhniki, Akademii nauk Litovskoy SSR)

TITIE: Heat resistance of refractory materials. 1. High temperature apparatus for investigation of heat resistance

SOURCE: AN LitSSR. Ser B. Fiz-matem khim geol i tekhn n. no. 1, 1966, 161-166

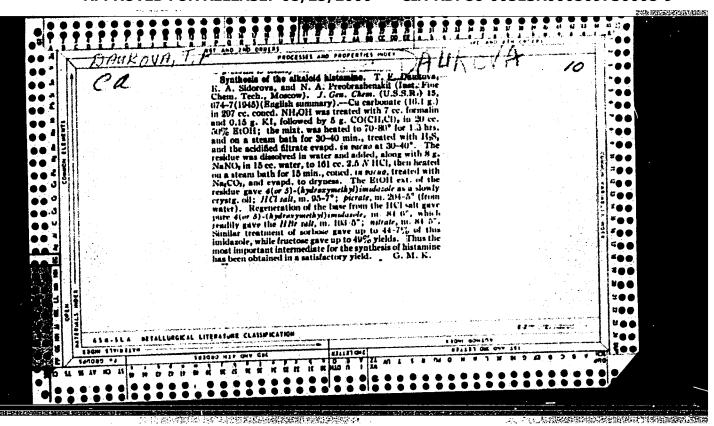
TOPIC TAGS: heat resistant material, metallurgic testing machine, aluminum oxide, zirconium compound

ABSTRACT: The article describes an original piece of apparatus for investigating the heat resistance of refractory materials with a temperature drop from 2500 to 300°K. The apparatus has two heating elements: the upper high temperature element is made of sheet tungsten, and the lower low temperature element of sheet molybdenum. The heating temperature of the samples in the zone of the upper element can be regulated in the interval from 600 to 2500°, and in the zone of the lower element from 400 to 1800°K. By replacing the molybdenum heater by a coil, cooled by countercurrent water, a temperature near 300°K can be reached in the lower zone. Cyclic change in temperature

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DAUKSAS, K.

SCIENCE

PERIODICAL: DARBAI. SERIJA B. TRUDY. SERIIA B. No. 3, 1958

Dauksas, K. Hydrochemical characteristics of ground waters of Eastern Lithuania. p. 107.

Monthly list of East European Accessions (EEAI) LC, Vol. 8, No. 2, February 1959, Unclass.

DAUKSAS, K.

SCIENCE

PERIODICAL: DARBAI. SERIJA B. TRUDY. SERIIA B. No. 3, 1958

Dauksas, K. Hardness of ground water of Eastern Lithuania and its quality. p. 137.

Monthly list of East European Accessions (EFAI) LC, Vol. 8, No. 2, February 1959, Unclass.

CIA-RDP86-00513R000509730008-9

DAUKSHAS, Kazis; VENGHITE, T., red.; ANAITIS, J., tekhn. red.

[Quantitative analysis] Kiekybine analize. Vilnius, Valstybine politines ir mokslines literaturos leidykla, 1961. 371 p. [In Lithuanian]

(Chemistry, Analytic—Quantitative)

DAUKŠHAS, K., prof. (g.Yil'nyus)

"Mokslas ir Gyvenimas" Mauka i zhizn' 27 no.3:75 Mr '60.

(Jithuania--Science--Periodicals)

(MIRA 13:6)

Baulsifying and mucilaginous properties of gums from certain fruit trees of Resales. Apt.delo 6 no.5:51-55 S-0'57. (MIRA 10:11)

1. Is kafedry farmskognosii (rukovoditel' raboty - prof. I.A. Murav'yev) Pyatigorskogo farmsteevticheskogo institute.

(FRUIT TREES) (GUMS AND RESINS)

DAUKSHA, A. D. Cand Pharm Sci -- (diss) "Study of the resins of certain arboreal plants of the rose family." Baku, 1958. 16 pp (Azerbaydzhan State Med Inst im N. Narimanov), 250 copies (KL, 52-58, 109)

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CIA-RDP86-00513R000509730008-9

ASOYEVA, Me.Z.; DAUKSHA, A.D.; DENISOVA, Ye.K.

Chemical composition of Alhagi persarum Boiss et Buhse. Izv.AN Turk.SSR.Ser.biol.nauk no.3:74-76 '62. (MIRA 15:9)

1. Pyatigorskiy farmatsevticheskiy institut.
(ASHKHABAD REGION—ALHAGI)

ASOYEVA, Ye. Z.; DAUKSHA, A. D.; DENISOVA, Ye. K.

Chemical composition of Alhagi persarum. Izv. AN Turk. SSSR. Ser. biol. nauk no. 6:75-77 '63. (MIRA 17:5)

1. Pyatigorskiy farmatsevticheskiy institut.

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730008-9"

ASOYEVA, Ye.Z.; DAUKSHA, A.D.; DENISOVA, Ye.K.; MURAV'YEVA, D.A.

Saporin-containing plants of the Northern Caucasus. Nauch. dokl.

vys. shkoly; biol. nauki no.4:148-150 '64. (MIRA 17:12)

1. Rekomendovana kafedroy farmakognozii Pyatigorskogo farmatsevticheskogo instituta.

DAUKSHA, K.

Cand Tech Sci - (diss) "Improvement of mixture-formation in engines with vortex chamber." Kaunas, 1961. 38 pp; with diagrams; (Ministry of Agriculture Lithuanian SSR, Lith Agri Academy); 180 copies; price not given; (KL, 10-61 sup, 214)

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730008-9"

DAUMSHAS, K

USSR/Analytical Chemistry - Analysis of Inorganic Substances

G-2

Abs Jour: Referat Zhur - Khimiya, No 3, 1957, 8493

Author : Dauksas, K. and Finkelsteinaite, M.

Inst : Vilno University
Title : A New Method for the Determination of Monocarboxylic Acids

and Iron

Orig Pub : Uch. zap. Vil'nyussk. un-t, Section on Mathematical, Physical,

and Chemical Sciences, 1956, No 5, 101-105 (in Lithuanian

with Russian summary)

Abstract: Fe(III) salts react with acetates in neutral media to form

polynuclear complexes of the type / Fe₂(CH₃COO)₆(OH)₂ / OOCCH₃. Fe(III) yellds similar compounds with other monocarboxylic acids. Only Cr(III) gives similar complexes under certain conditions. The reaction of FeCl₃ with acetate has been used in the development of a conductometric method for the determination of Fe (in the presence of Ni, Co, Al, Zn, and other cations) and of monocarboxylic acids in mixtures of mineral acids. The

method gives satisfactory results.

Card 1/1

-32-

DAUKSHAY K

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730008-

SOV/137 - 58-11-23797

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 274 (USSR)

AUTHORS: Daukshas, Ramonayte [Dauksas, K., Ramonaité, S.]

TITLE: Volumetric Determination of Aluminum (Ob"yemnoye opredeleniye

alyuminiya) in Lithuanian

PERIODICAL: Uch. zap. Vil'nyussk. un-t. Ser. matem., fiz. i khim. n., 1957,

Vol 7, pp 153-159

ABSTRACT: The possibility of volumetric determination of Al in the presence of Fe and Ti was investigated. A technique was developed for the acidimetric determination of Al in aluminate solutions by transforming it into a fluoride complex and titrating the equivalent amount of liberated alkali. The presence in the solution of a triple amount of

Fe and Ti does not impede the determination.

K. K.

DAUKSHAS, K

SOV/137-58-11-23832

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 280 (USSR)

AUTHORS: Daukshas, Narushkevichus [Dauksas, K., Naruskevičius, L.]

TITLE: On the Volumetric Determination of Antimony (K ob"yemnomu opre-

deleniyu sur'my) in Lithuanian

PERIODICAL: Uch. zap. Vil'nyussk. un-t. Ser. matem., fiz. i khim. n., 1957,

Vol 7, pp 161-168

ABSTRACT: The authors propose three methods for the iodometric determination

of Sb using potentiometric titration: 1) titration with iodine, 2) using a bi-metallic electrode, and 3) using SnCl₂. In the second case Cu does not impede the determination. Pb, Sn, Bi, Fe, and As impede the

determination in the second but not in the third case.

K. K.

Card 1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730008-9"

Translation from: Referativnyy zhurnal. Metallurgiya, 1958, Nr 11, p 276 (USSR)

AUTHORS: Daukshas, Payeda [Dauksas, K., Pajeda, R.]

TITLE: Investigation of Methods of Cobalt Determination (Issledovaniye metodov opredeleniya kobal'ta); in Lithuanian

PERIODICAL: Uch. zap. Vil'nyussk. un-t. Ser. matem., fiz. i khim. n., 1957, Vol 7, pp 183-195

ABSTRACT: Methods for the determination of Co are investigated. The sulfate, electrolytic, and phosphate methods are suitable for the precise determination of Co. The anthranyl method is the most precise, having a relative error of 0.00 - 0.06%. A gravimetric method was developed for the determination of Co in the form of [C₁₀H₆O(NO)]₃ Co·2H₂O in the presence of Ni, Cr, Mn, and As and an iodometric method using CHCl₃ and starch as indicators.

K. K.

Card 1/1

S. ALGERT PROPERTY OF THE SECOND PROPERTY OF

DAUKSHAS V.K

AUTHOR: TITLE:

PERIODICAL:

ABSTRACT:

LEVINA, R.Ya., SHABAROV, Yu. S., MUKSHAS, V.K. and TRESHCHOVA, Ye.G. 2,4-Dimethylpentadien-1,3 in the Synthesis of Alkanes with Two 20-6-28/59 Quaternary Carbon Atoms Separated by a CH2-Group (Ditertiary Alkylmethanes).

2,4-dimetilpentadien-1,3 v sinteze alkanov s dvumya chetvertichnymi atomami ugleroda, razdelennymi CH,-gruppoy (ditretichnoalkilmetanov. Russian).

Doklady Akademii Nauk SSSR, 1957, Vol 113, Nr 6, pp 1286 - 1289

(U.S.S.R.)

In earlier reports the authors described the method of synthesis of ethylene-hydrocarbons with a quaternary carbon atom. It consists of a reaction between alkylmagnesiumbromides and unsaturated tertiar bromides of the allyle-type; the latter are easily produced by means of hydrobromization of dien-hydrocarbons of a ramitied structure with a conjugated system of double bindings. E.g. hydrobromide of 2,4-dimethylpentadien-1,3 served as initial substance for the synthesis of 2,4-trimethylalkenes. In this paper the authors worked out a new and easy synthe for the production of the rather hard obtainable paraffinhydrocarbons with four quarternary carbon atoms which are separated by aCH2-group, that is of the ditertiary alkylmethanes. Here the same initial substance was used. The reaction mentioned is the first stage of this synthesis, where

Card 1/3

20-6-28/59

2,4-Dimethylpentadien-1,3 in the Synthesis of Alkanes with Two Quaternary Carbon Atoms Separated by a CH2-Group (Ditertary Alkylmethanes).

the yield could be increased from 30 to 45 %. Furthermore, the alkenes which had already a quaternary carbon atom were transformed by the action of hydrochloric acid into saturated tertiary chloride 2-chlorine-2,4-trimethylalkanes (yield 90%). The latter were then introduced into the reaction with magnesiumorganic compounds with sublimate as a catalyzer; the products of this last stage of the synthesis were alkanes with two quaternary carbon atoms separated by a CH2-group. In the case of an interaction with magnesiumorganic compounds the saturated tertiary alkanes split off also hydrochlorio acid and, with a yield of 50% form the initial alkanes. The latter were used for alkane-synthesis. The akanes and alkanes were easily separated by destillation. The alkane yield amounted to from 15 - 25 % calculated according to the tertiary chloride introduced into the reaction, and to from 30 - 50 % according to that not utilized. Reactions with yields, methods, and spectroscopic constants are described. (3 tables, 6 Slavic references).

Card 2/3

AUTHORS:

Levina, R. Ya, Shabarov, Yu.S., and Daukshas, V.K. SOV/55-58-1-25/33

TITLE:

Synthesis of Hydrocarbons. 64. The 2,4 Dimethylpentadien - 1,3 in the Synthesis of the Alkanes With Neighboring Quaternary and Tertiary Atoms of Carbon (Sintez uglevodorodov. 64. 2,4 - dimetilpentadien - 1,3 v sintese alkanov s sosednimi chetvertichnym; i tretichnym atomami ugleroda)

PERIODICAL: Vestnik Moskovskogo universiteta, Seriya fiziko-matematicheskikh i yestestvennykh nauk, 1958, Nr 1, pp 187-191 (USSR)

ABSTRACT:

The authors used a method developed some times ago (synthesis of hydrocarbons with quaternary atoms of carbon by reciprocal action of the hydrochloride of 2,4 - dimethylpentadien - 1,3 and the organic combinations containing magnesium) in order to obtain the following combinations: 2,4,4,5 - tetramethylheptene - 2; 2,4,4,5 - teramethyloctene - 2 and 2,4,4 - trimethyl - 5 - ethylhepten - 2. By hydrogenation of these stuffs the authors obtained: 2,4,4,5 - tetramethylheptan; 2,4,4,5 - tetramethyloctane; 2,4,4 - trimethyl - 5 ethyl heptan.

There are 10 references, 7 of which are Soviet, and 3 American.

ASSOCIATION: Kafedra organicheskoy khimii (Chair of Organic Chemistry) SUBMITTED: April 20, 1957

Card 1/1

APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R000509730008-9"

The same production of the second production o

AUTHORS: Levina, R. Ya., Shabarov, Yu. S., Jaukshas, V. E. SOV/79-28-8-11/66 TITLE: Synthesis of the Hydrocarbons (Sintez uglevodorodov) LXV. IL-Tert.-Alkylmethane From 2,4-Dimethylpentadiene-1,3 (LXV. Di-tret.-alkilmetany iz 2,4-dimetilpentadiyenz-1,3) FARROUTCAL: Zhurnal obshchey khimii, 1958, Vol. 28, Nr 8, pp.2049-2055(UND) ABSTRACT: In connection with a previous publication (Ref 1) the authors present the following results in this paper: a method of synthe sizing two alkanes which have quarternaries separated by CH2 groups has been worked out using 2,4-dimethylpentadiene-1,3 es the starting material. This is a difficult synthesis, and these two compounds were previously almost unknown. The method consists of 4 reactions: 1) preparation of a tertiary unsaturated allyl chloride by hydrochlorinating the 2,4-dimethylpentadiene-1,3; 2) the decomposition of this product with alkyl magnesium bromide to give alkenes with a cuarternary carbon atom (45 - 65 % yield); 3) the hydrochlorination of this product; 4) reaction of the resulting tertiary coloride Card 1/2 (maximum yield: 90 %) with alkyl magnesium browide in the

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CIA-RDP86-00513R000509730008-9

Synthesis of the Hydrocarbons.

807/79-28-8-11/66

LXV. Di-Tert.-Alkylmethane From 2,4-Dimethylpentadiene-1,3

presence of mercurious chloride. Di-tert.-alkylmethanes of symmetrical and unsymmetrical structure were synthesized, and some of these contained both quarternary and tertiary carbon atoms. The yield was 3 - 20 % celculated on the bosis of the tertiary chloride, and 6 - 40 % calculated on the basis of the product of reaction 1). Descriptions are given for the first time of a few tertiary monochlorides which have a quarternary carbon in the chain. By hydrochloring ting the 2,4-dimethylpentadiene-1,3 a mono- and dihydrochloride were also prepared. There are 3 tables and 12 references, 10 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet

(Moscow State University)

SUBMITTED:

July 1, 1957

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AUTHORS:

Levina, R.Ya., Daukshas, V.K.

\$/055/59/000/04/023/026

B004/B007

TITLE:

The Synthesis of Hydrocarbons. 73. The Viscous Properties and the Solidification Point of Di-tertiary Alkyl-methanes

PERIODICAL:

Vestnik Moskovskogo universiteta. Seriya matematiki, mekhaniki, astronomii, fiziki, khimii, 1959, Nr 4, pp 221-224 (USSR)

ABSTRACT:

In references 1-5 the authors gave a report on the synthesis of paraffin hydrocarbons having two or three tetrasubstituted carbon atoms separated by a methylene group, and mentioned several physical constants (boiling point, n_D^{20} , d_4^{20}). In this paper the

data on the kinetic viscosity (determined by means of an Ostwald capillary viscosimeter at 200) as well as the solidification points are given. Table 1 gives these data for C9H2O (2,2,4,4-tetramethyl pentane) to C₁₇H₃₆ (2,3,5,6,6-pentamethyl-3,5-diethyl-octane).

Viscosity is considerably influenced by the structure. Remified hydrocarbons have a higher degree of viscosity. Table 2 shows the temperature dependence of viscosity. With rising temperature, the differences in viscosity, which were observed at 200, become less. Of the isomeric hydrocarbons C15H32, the highest specific gravity is found with those hydrocarbons which contain two neighboring tetrasubstituted carbon atoms or neighboring tetra- and trisubstituted

Card 1/2

The Synthesis of Hydrocarbons. 73. The Viscous Properties S/055/59/000/04/023/026 and the Solidification Point of Di-tertiary Alkyl- B004/B007 methanes

carbon atoms. The hydrocarbons $C_{16}^{H_{34}}$ to $C_{17}^{H_{36}}$ with highly ramified structure vitrify at from -60° to -45°, and the hydrocarbons $C_{15}^{H_{32}}$ at from -70° to -95°. There are 2 tables and 5 Soviet

ASSOCIATION: Kafedra organicheskoy khimii (Chair of Organic Chemistry)

February 20, 1959

Card 2/2

5(3) AUTHORS:

Levina, R. Ya., Daukshas, V. K., Kaykaris, P. A. SOV/79-29-4-3/77

TITLE:

Synthesis of Hydrocarbons (Sintez uglevodorodov). 68. Ditertiary Alkyl Methanes C13 - C15 From 3,5-Dimethyl Heptadiene-2,4

(68. Ditretichnoalkilmetany C₁₃ - C₁₅ iz 3,5-dimetilgeptadiyena-

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 4, pp 1056-1061 (USSR)

ABSTRACT:

In previous papers (Refs 1,2) the authors described a new synthesis of ditertiary alkyl methanes R'(CH3)2C-CH2-C(CH3)2R and used as initial product a tertiary chloride of the allyl type. In the present paper a new general synthesis of the difficultly accessible and hitherto not described ditertiary alkyl methanes

C - R, where R and R'

Card 1/3

are equal or different radicals, was devised. The synthesis consists of the following steps: a) Condensation of the methyl-

THE REPORT OF THE PROPERTY OF

Synthesis of Hydrocarbons. 68. Ditertiary Alkyl Methanes c_{13} - c_{15} From

ethyl ketone into the 3-methyl hepten-3-one-5; b) synthesis of the 3,5-dimethyl heptadiene-2,4 (IIa) (with a possible impurity of the isomeric diene of the same carbon skeleton). (IIb) by reaction of methyl heptenone with methyl magnesium bromide; c) hydrochlorination of dimethyl heptadiene; d) reaction of the resulting 3-chloro-3,5-dimethyl heptene-4 (III) with alkyl magnesium bromides; e) hydrochlorination of the alkenes (reaction products), i.e. the synthesis of tertiary saturated chlorides [(3-chloro-3,5-dimethyl-5-ethyl alkanes (V)] with a quaternary carbon, and f) reaction of these chlorides with organo-magnesium compounds in the presence of HgCl2 (VI) (see the two reaction schemes). The following compounds were thus newly synthesized: 3,5-dimethyl-3,5-diethyl heptane; 4,6-dimethyl-4,6-diethyl nonane; 2,3,5-trimethyl-3,5-diethyl octane and 2,3,5,6-tetramethyl-3,5-diethyl heptane. There are 3 tables and 14 references, 9 of which are Soviet.

Card 2/3

Synthesis of Hydrocarbons. 68. Ditertiary Alkyl Methanes C_{13} - C_{15} From 5.5-Dimethyl Heptadiene-2,4

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet (Moscow State University)

SUBMITTED:

February 19, 1958

Card 3/3

5(3) AUTHORS:

Levina, R. Ya., Daukshas, V. K., Kostrov, V. A.

TITLE:

Synthesis of Hydrocarbons. LXX. Synthesis of Ditertiary Alkyl Methanes (${\rm C}_{14}$ - ${\rm C}_{17}$) With Three Quaternary Carbon Atoms

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 8, pp 2601 - 2604 (USSR)

ABSTRACT:

The authors recently described (Refs 1-3) the general method of synthesizing the paraffin hydrocarbons with two quaternary carbon atoms which are separated by a methylene group (of the ditertiary alkyl methanes): the tertiary allyl chlorides (I), the monohydrochlorides of 2,4-dimethyl pentadiene-1,3,(R=CH₃) or of 3,5-dimethyl heptadiene-2,4 (R=C₂H₅) were introduced into

the reaction, i.e. into the first reaction of Grignard-Wuertz, with alkyl magnesium; the resultant alkenes were hydrochlorinated, and the tertiary saturated chlorides synthesized in this connection were converted with alkyl magnesium bromides in the presence of mercuric chloride (in the second Grignard-Wuertz reaction) into the ditertiary alkyl methanes. In the present paper the tertiary alkyl-magnesium chlorides were used (instead of the

Card 1/2

Synthesis of Hydrocarbons, LXX. Synthesis of Ditertiary SOV/79-29-8-32/81 Alkyl Methanes (C14-C17) With Three Quaternary Carbon Atoms

previously employed primary or secondary alkyl-magnesium bromides) in the first part of the Grignard-Wuertz reaction. The alkenes (II) with two adjacent quaternary carbon atoms were formed; by hydrochlorination of these alkenes, the corresponding saturated tertiary chlorides (III) were obtained, from which the ditertiary alkyl methanes (IV) with considerably branched structure and with three quaternary carbon atoms were synthesized with isopropylmagnesium bromide, in the presence of HgCl2, according to Grignard-Wuertz (Reaction Scheme). In this way, the former universal method of synthesizing the ditertiary alkyl-methanes with two quaternary carbon atoms was extended to the ditertiary alkyl methanes with three quaternary carbon atoms. In both tables, the constants of the resultant alkenes and alkanes with the corresponding general structure formulas are given. The authors expressed their gratitude to Ye. G. Treshchova for the optical investigations which were carried out in order to characterize the compounds synthesized. There are 2 tables and 8 ASSOCIATION: Moskovskiy gosudarstvennyy universitet (Moscow State University)

Card 2/2

LEVINA, R.Ta.; DAUKSHAS, V.K.

Synthesis of hydrocarbons. Part 73: Viscose Foorties and solidification points of di-tert-alkylmenthanes. Vest. Mosk. un. Ser.mat., mekh.astron.fis.khim. 14 no.4:221-224 '59.

1. Mafedra organicheskoy khimii Moskovskogo universiteta.

(Methane)

WIND THE PROPERTY OF THE PROPE

5(3,4) AUTHORS:

507/20-127-4-23/60 Shtekher, S. M., Skuratov, S. M., Daukshas, V. K., Levina, R. Ya.

TITLE:

Heats of Combustion of Some Branched Alkanes

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 812-814

ABSTRACT:

The authors describe the use of additive schemes for calculating the values of physico-chemical properties of hydrocarbons for which experimental values are missing. In the molecules of the simplest hydrocarbon group, i.e. the alkanes, there are simple C-C and C-H bonds. But as regards their contributions to certain physico-chemical properties, all these bonds cannot be considered equivalent. A scheme built up on such assumptions would be very simple, yet it is known to be incapable of reflecting the differences of the properties between the isomers. Hence, it is uravoidable to establish a more careful classification of these bonds. A number of additive schemes are presently available which - with a certain accuracy - permit the calculation of the heats of combustion (besides other properties) of alkanes (Refs 1-10). The most logical scheme was developed by

Card 1/3

V. M. Tatevskiy (Ref 5). The authors are criticising the latter

Heats of Combustion of Some Branched Alkanes

SOV/20-127-4-23/60

in view of its divergences from experimental results. As only one example was available of an alkane with a substitution in a 2,2,4,4-position which showed the divergences mentioned, it was felt to be interesting to find out whether similar phenomena occurred in other alkanes of identical grouping; further, whether the degree of these divergences remained constant, or whether it depends on the structure of the remaining parts of the molecule. Furthermore, it seemed interesting to determine the heats of combustion of such compounds in which the quaternary C-atoms are not separated by one but two methyl group. For these structures the heat of combustion calculated should agree with the experimental values. The schemes (1),(2), and (3) explain the structure of the hydrocarbons whose heat of combustion was determined. A. G. Anikin of the Laboratoriya termodinamiki khimicheskogo fakuliteta (Laboratory for Thermodynamics of the Chemical Department) of the University mentioned below, determined the purity of the substances investigated according to fusion curves. The method of determining the heat of combustion had already been described earlier by the second author et al (Ref 15). Table 1 shows the experimental results obtained. For the sake of comparison, column 2 contains not only

Card 2/3

Heats of Combustion of Some Branched Alkanes

SOV/20-127-4-23/60

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the values calculated by a scheme developed by V. M. Tatevskiy, but also the difference Δ . Herefrom it may be seen that all hydrocarbons whose molecules contain a group of two quaternary C-atoms, separated by a CH2 group, show experimental values of

the heat of combustion diverging from the values calculated by about 51 kcal/mol. This value must be taken into consideration for calculations according to Tatevskiy. If, however, the 2 quaternary C-atoms are separated by 2 CH2-groups, the two values

are concordant, as was to be expected within the limits of the experimental error. L. V. Fedorchuk and I. Baukh participated in these investigations. There are 1 table and 15 references, 6 of which are Soviet.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

PRESENTED:

April 13, 1959, by A. N. Hesmeyanov, Academician

SUBMITTED:

April 10, 1959

Card 3/3

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AUTHORS:

Levina, R. Ya., Daukshas, V. K.

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TITLE8

Hydrocarbon Synthesis. 74. Alkyl Cyclohexanes With Two

Quaternary Carbon Atoms in the Side Chain

PERIODICAL8

Zhurnal obshchey khimii, 1960, Vol. 30, No. 6, pp. 1758-1761

TEXT: To determine the optimum hydrocarbon structures for the components of motor fuels, some alkyl cyclohexanes were synthesized with two quaternary carbon atoms in their side chain. The authors proved in a previous paper (Ref. 6) that density and refractive index of these compounds decrease with growing distance between the two quaternary carbon atoms. Two groups of compounds were prepared: 1) Direct bonding of one of the quaternary carbon atoms to the cyclohexyl radical; 2) there is a methylene group between the cyclohexyl radical and the quaternary carbon atom. Tertiary allyl chlorides (I) were used as initial substances (the hydrochlorides of 2,4-dimethyl-pentadiene-1,3 and of 3,5-dimethyl-heptadiene-2,4). They were subjected two times to a Grignard-Wuertz reaction, once (ad 1) first under the influence of cyclohexyl-magnesium

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Hydrocarbon Synthesis. 74. Alkyl Cyclohexanes With Two Quaternary Carbon Atoms in the Side Chain

S/079/60/030/06/01/009 B002/B016

chloride (formation of alkenyl cyclohexanes II). These were hydrochlorinated (to give III) and then treated with isopropyl magnesium bromide. In this way 2,3,3,5-tetramethyl-5-cyclohexyl-hexane or 2,3,5-trimethyl-3-ethyl-5-cyclohexyl-heptane (IV) were obtained. (Ad 2): 2, 3, 3, 5, 5-pentamethyl-6-phenyl hexane and 2, 3, 3, 5, 5-pentamethyl-6-cyclohexyl-hexane were obtained by hydrochlorination of (I) to (V); in this case (V) was first treated with isopropyl magnesium bromide to form (VI), and then with benzyl magnesium chloride. The procedure of the synthesis is described in detail in the experimental part. Reaction schemes are given. Constants, analytical data, and yields of all compounds synthesized are summarized in a table. None of the compounds is described in publications. The compounds with a quaternary carbon atom directly bound to the cyclohexyl radical were found to have a higher density than those with an inserted methylene group. The molecular refraction was determined experimentally, and the values were compared with the theoretically calculated ones. The values calculated according to V. M. Tatevskiy (Ref. 9), who considered all types of bondings occurring in the compound, were found to conform best with the experimental values. The authors

Card 2/3